

### Abstract of the Disclosure

A self diagnostic solid state relay for converting a low current input into a high current output and providing the combined functions of silent switching and visual indication of circuit status. A three dimensional polygonal shaped housing encloses a printed circuit board. A MOSFET field effect transistor, a pair of female circuit board terminals, and a pair of LED elements are electrically communicable with a first side of the printed circuit board, the LED elements further being viewable from an exterior location of the housing. A fuse including first and second spaced apart and extending blade portions engage, respectively, with the first and second female terminals through openings defined in the housing. A plurality of male circuit board terminals are in electrical communication with a second side of said printed circuit board and extend from further selected exterior locations of the housing. The first LED element illuminates to indicate an open circuit due to an open OCPD operating condition of the relay, whereas the second LED element illuminates to indicate a partial or total open load circuit operating condition.